



Patent  
P70-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Eldridge et al.  
Application No.: 09/810,871  
Filing Date: March 16, 2001  
For: Wafer Level Interposer

Examiner: A. Gilman  
Group Art Unit: 2833

INFORMATION DISCLOSURE STATEMENT (IDS)

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Listed on an attached Form PTO/SB/08A is information known to applicant(s). A copy of each listed publication, U.S. and foreign patent document, and pending U.S. application (including drawings and claims), is being submitted herewith, along with a concise explanation of information in a foreign language, if any, pursuant to 37 C.F.R. §1.97-1.98.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. The Examiner is requested to initial and return the attached Form PTO/SB/08A in accordance with MPEP §609.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

01/31/2002 JADD01 00000028 500285 09810871  
01 FC:126 180.00 CH

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.G./

- ☐ This statement qualifies under 37 C.F.R. §1.97, subsection (b) because (check all that apply):

- ☐ (1) It is being filed within 3 months of the application filing date (other than the filing date of a continued prosecution application under §1.53(d))  
-- OR --  
☐ (2) It is being filed within 3 months of entry of a national stage  
-- OR --  
☐ (3) It is being filed before the mail date of the first Office Action on the merits  
-- OR --  
☐ (4) It is being filed before the mail date of the first Office Action after the filing of a request for continued examination under §1.114.

- ☒ 37 C.F.R. §1.97(c). If this statement is being filed after the latest of: (1) three months beyond the filing date of a national application; (2) three months beyond the date of entry of the national stage as set forth in §1.491 in an international application; (3) the mailing date of a first Office action on the merits, or (4) the mailing date of a first Office Action after the filing of a request for continued examination under §1.114, but before the mailing date of the earlier of a final office action under §1.113, a notice of allowance under §1.311, or an action that otherwise closes prosecution in the application, then:

- ☐ a statement as specified in §1.97(e) is provided below; or  
☒ a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

- ☐ 37 C.F.R. §1.97(d). If this statement is being filed after the mailing date of the earlier of a final office action under §1.113, a notice of allowance under §1.311, or an action that otherwise closes prosecution in the application, but before payment of the issue fee, then:

- A. a statement as specified in §1.97(e) is provided below; and  
B. a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

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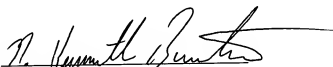
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- ☒ *Fee Authorization.* Applicants hereby authorize the Commissioner to charge the above fee of \$180 to Deposit Account No. 50-0285 (Order No. P70-US). Although Applicants believe that no additional fee is due in connection with the filing of this paper, the Commissioner is hereby authorized to charge any additional fees due, or credit any overpayment associated, with this communication to Deposit Account No. 50-0285 (Order No. P70-US).

Respectfully submitted,

Date: January 7, 2002

By:

  
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Reg. No. 39,923

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Modified Form PTO/SB/08A

Substitute <del>Form</del> PTO		<b>Complete If Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Application Number	09/810,871
		Filing Date	March 16, 2001
		First Named Inventor	Eldridge et al.
		Group Art Unit	2833
		Examiner Name	A. Gilman
Sheet	1	of	4
		Attorney Docket No.	P70-US

U.S. PATENT DOCUMENTS					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant	Publication Date
		Number	Kind Code <sup>2</sup>		
	1	4523144		Okubo et al.	6/11/1985
	2	4567433		Ohkubo et al.	1/28/1986
	3	4636722		Ardezzone	1/1/1987
	4	4719417		Evans	1/12/1988
	5	4837622		Whann et al.	6/6/1989
	6	4899099		Mendenhall	2/6/1990
	7	4965865		Trenary	10/23/1990
	8	4983907		Crowley	1/8/1991
	9	5055778		Okubo et al.	10/8/1991
	10	5088190		Malhi et al.	2/18/1992
	11	5090118		Kwon et al.	2/25/1992
	12	5109596		Driller et al.	5/5/1992
	13	5124639		Carlin et al.	6/23/1992
	14	5172050		Swapp	12/15/1992
	15	5187020		Kwon et al.	2/16/1993
	16	5191708		Kasukabe et al.	3/9/1993
	17	5225777		Bross et al.	7/6/1993
	18	5382898		Subramanian	1/17/1995
	19	5395253		Crumly	3/7/1995
	20	5399982		Driller et al.	3/21/1995
	21	5521518		Higgins	5/28/1996
	22	5546405		Golla	8/13/1996
	23	5629137		Leedy	5/13/1997
	24	5729150		Schwindt	3/17/1998
	25	5742170		Isaac et al.	4/21/1998

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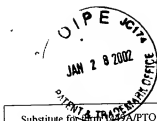
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.



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				Group Art Unit	2833
				Examiner Name	A. Gilman
Sheet	2	of	4	Attorney Docket No.	P70-US

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant	Publication Date	Relevant Portions
		Number	Kind Code <sup>2</sup>			
	26	5786701		Pedder	7/28/1998	
	27	6040700		Berar	3/21/2000	
	28	6059982		Palagonia et al.	5/9/2000	
	29	6169409		Amemiya	1/2/2001	
	30	6246250		Doherty et al.	6/12/2001	
	31	3981159		Dennis et al.	9/21/1976	
	32	4293175		Cutchaw	10/6/1981	
	33	4906194		Grabbe	3/6/1990	
	34	5067007		Kanji et al.	11/19/1991	
	35	5173055		Grabbe	12/22/1992	
	36	5228861		Grabbe	7/20/1993	
	37	5437556		Bargain et al.	8/1/1995	
	38	5476211		Khandros	12/19/1995	
	39	5682064		Atkins et al.	10/28/1997	
	40	6002266		Briggs et al.	12/14/1999	
	41	6050829		Eldridge et al.	4/18/2000	
	42	6818567	B1	Roemer et al.	1/30/2001	
	43	6204455	B1	Gilleo et al.	3/20/2001	

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet	3	of	4	Attorney Docket No.	P70-US
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*Complete If Known*

Application Number	09/810,871
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Group Art Unit	2833
Examiner Name	A. Gilman

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant	Publication Date	Relevant Portions	T <sup>6</sup>
		Office <sup>2</sup>	Number <sup>2</sup>	Kind Code <sup>3</sup>				
	44	JP	365659		Kenjiro	3/20/1991		x
	45	JP	529406		Shin	2/5/1993		x
	46	JP	650990		Kazami	2/25/1994		x
	47	JP	6273445		Masao	9/30/1994		x
	48	JP	6313775		Higgins et al.	11/8/1994		x
	49	JP	6363777			4/27/1988		
	50	JP	6244285			3/17/1987		
	51	JP	58178293		Motoki et al.	11/29/1983		x
	52	JP	63243768		Mineo et al.	10/11/1988		x

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		Office <sup>2</sup>	Number <sup>3</sup>	Kind Code <sup>5</sup>				

OTHER PRIOR ART - NONPATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published						T <sup>2</sup>
	53	LEUNG et al., "Active Substrate Membrane Probe Card," Technical Digest of the International Electron Devices Meeting (IEDM) (October 12, 1995), pp. 709-712						
	54	EMSWORTH, "High Density Probe Assembly," Research Disclosure 2244, No. 333, p. 33391 (January 1992)						

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